

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-142919

(43)Date of publication of application : 16.05.2003

(51)Int.Cl.

H01Q 3/24

H01Q 13/08

H01Q 13/10

H01Q 21/28

(21)Application number : 2001-312126

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(22)Date of filing : 10.10.2001

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(30)Priority

Priority number : 2001248764

Priority date : 20.08.2001

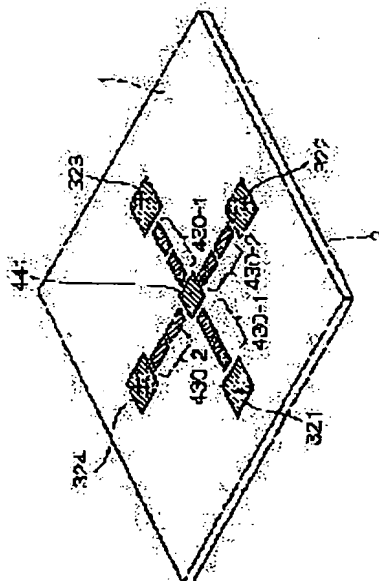
Priority country : JP

(54) MULTI-BEAM ANTENNA

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a low-cost multi-beam antenna which can avoid increasing antenna size even when the number of sectors increases.

SOLUTION: The multi-beam antenna is equipped with two antenna arrays comprising both-ends parasitic elements 321 and 323 (322 and 324) and parasitic elements 430-1 (430-2) and 441 which are electrically smaller than the parasitic element, and the antenna element arrays have all the parasitic elements on rays from feed elements as start points and are so arranged that all the rays cross one another without being completely included in any other ray, so that the two antenna element arrays share the parasitic element 441. The feed points (feed elements 321 to 324) are switched to realize a multi-beam antenna with four beams.



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LEGAL STATUS

[Date of request for examination]

02.02.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3716919

[Date of registration] 09.09.2005

[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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